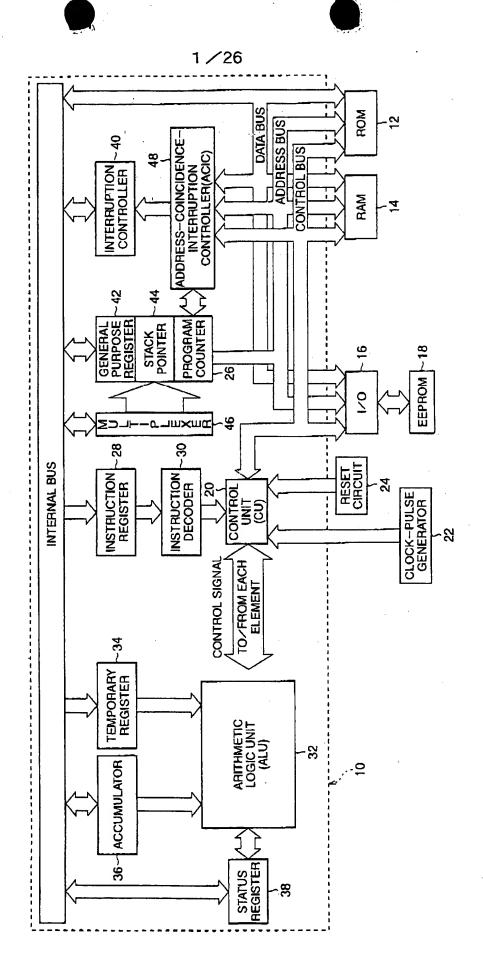
D

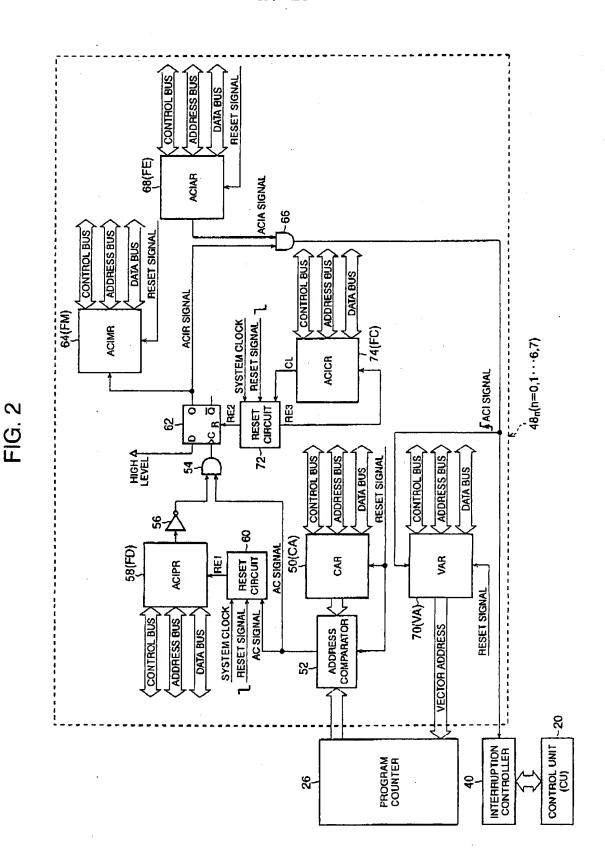
1



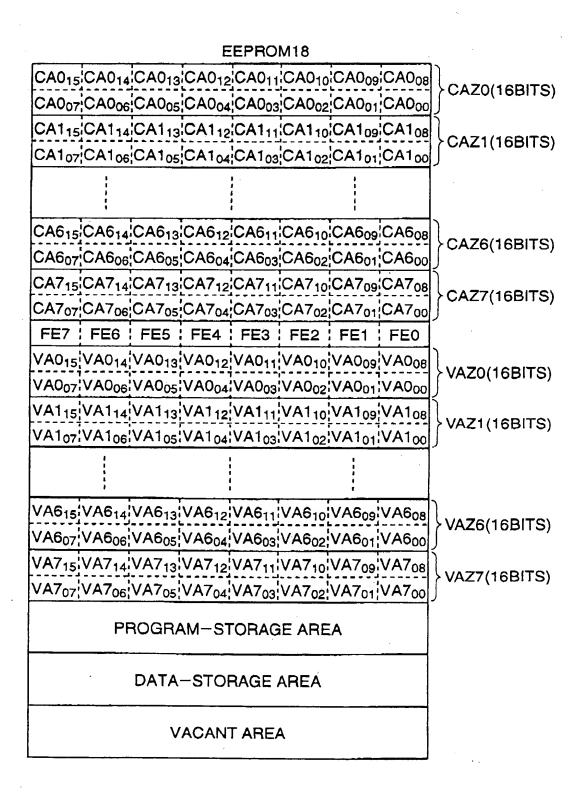


1

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3 / 26 FIG. 3



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FIG. 4

CIRCUIT ELEMENT 480

CAR 50

CA0₁₅ CA0₁₄ CA0₁₃ CA0₁₂ CA0₁₁ CA0₁₀ CA0₀₉ CA0₀₈ CA0₀₇ CA0₀₆ CA0₀₅ CA0₀₄ CA0₀₃ CA0₀₂ CA0₀₁ CA0₀₀

ACIAR 68

FE0

VAR 70

VA0₁₅ VA0₁₄ VA0₁₃ VA0₁₂ VA0₁₁ VA0₁₀ VA0₀₉ VA0₀₈ VA0₀₇ VA0₀₆ VA0₀₅ VA0₀₄ VA0₀₃ VA0₀₂ VA0₀₁ VA0₀₀

FIG. 5

CIRCUIT ELEMENT 481

CAR 50

CA1₁₅CA1₁₄CA1₁₃CA1₁₂CA1₁₁CA1₁₀CA1₀₉CA1₀₈ CA1₀₇CA1₀₆CA1₀₅CA1₀₄CA1₀₃CA1₀₂CA1₀₁CA1₀₀

ACIAR 68

FE1

VAR 70

VA1₁₅ VA1₁₄ VA1₁₃ VA1₁₂ VA1₁₁ VA1₁₀ VA1₀₉ VA1₀₈ VA1₀₇ VA1₀₆ VA1₀₅ VA1₀₄ VA1₀₃ VA1₀₂ VA1₀₁ VA1₀₀



FIG. 6

CIRCUIT ELEMENT 482

CAR 50

CA2₁₅ CA2₁₄ CA2₁₃ CA2₁₂ CA2₁₁ CA2₁₀ CA2₀₉ CA2₀₈ CA2₀₇ CA2₀₆ CA2₀₅ CA2₀₄ CA2₀₃ CA2₀₂ CA2₀₁ CA2₀₀

ACIAR 68

FE2

VAR 70

VA2₁₅ VA2₁₄ VA2₁₃ VA2₁₂ VA2₁₁ VA2₁₀ VA2₀₉ VA2₀₈ VA2₀₇ VA2₀₆ VA2₀₅ VA2₀₄ VA2₀₃ VA2₀₂ VA2₀₁ VA2₀₀

FIG. 7

CIRCUIT ELEMENT 483

CAR 50

CA3₁₅ CA3₁₄ CA3₁₃ CA3₁₂ CA3₁₁ CA3₁₀ CA3₀₉ CA3₀₈ CA3₀₇ CA3₀₆ CA3₀₅ CA3₀₄ CA3₀₃ CA3₀₂ CA3₀₁ CA3₀₀

ACIAR 68

FE3

VAR 70

VA3₁₅ VA3₁₄ VA3₁₃ VA3₁₂ VA3₁₁ VA3₁₀ VA3₀₉ VA3₀₈ VA3₀₇ VA3₀₆ VA3₀₅ VA3₀₄ VA3₀₃ VA3₀₂ VA3₀₁ VA3₀₀

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FIG. 8

CIRCUIT ELEMENT 484

CAR 50

CA4₁₅ CA4₁₄ CA4₁₃ CA4₁₂ CA4₁₁ CA4₁₀ CA4₀₉ CA4₀₈ CA4₀₇ CA4₀₆ CA4₀₅ CA4₀₄ CA4₀₃ CA4₀₂ CA4₀₁ CA4₀₀

ACIAR 68

FE4

VAR 70

VA4₁₅ VA4₁₄ VA4₁₃ VA4₁₂ VA4₁₁ VA4₁₀ VA4₀₉ VA4₀₈ VA4₀₇ VA4₀₆ VA4₀₅ VA4₀₄ VA4₀₃ VA4₀₂ VA4₀₁ VA4₀₀

FIG. 9

CIRCUIT ELEMENT 485

CAR 50

CA5₁₅ CA5₁₄ CA5₁₃ CA5₁₂ CA5₁₁ CA5₁₀ CA5₀₉ CA5₀₈ CA5₀₇ CA5₀₆ CA5₀₅ CA5₀₄ CA5₀₃ CA5₀₂ CA5₀₁ CA5₀₀

ACIAR 68

FE5

VAR 70

VA5₁₅ VA5₁₄ VA5₁₃ VA5₁₂ VA5₁₁ VA5₁₀ VA5₀₉ VA5₀₈ VA5₀₇ VA5₀₆ VA5₀₅ VA5₀₄ VA5₀₃ VA5₀₂ VA5₀₁ VA5₀₀

CAR 50 CA6₁₅ CA6₁₄ CA6₁₃ CA6₁₂ CA6₁₁ CA6₁₀ CA6₀₉ CA6₀₈ CA6₀₇ CA6₀₆ CA6₀₅ CA6₀₄ CA6₀₃ CA6₀₂ CA6₀₁ CA6₀₀ ACIAR 68 FE6 VAR 70 VA6₁₅ VA6₁₄ VA6₁₃ VA6₁₂ VA6₁₁ VA6₁₀ VA6₀₉ VA6₀₈ VA6₀₇ VA6₀₆ VA6₀₅ VA6₀₄ VA6₀₃ VA6₀₂ VA6₀₁ VA6₀₀

FIG. 11

CAR 50 CA7₁₅ CA7₁₄ CA7₁₃ CA7₁₂ CA7₁₁ CA7₁₀ CA7₀₉ CA7₀₈ CA7₀₇ CA7₀₆ CA7₀₅ CA7₀₄ CA7₀₃ CA7₀₂ CA7₀₁ CA7₀₀ ACIAR 68 FE7 VAR 70 VA7₁₅ VA7₁₄ VA7₁₃ VA7₁₂ VA7₁₁ VA7₁₀ VA7₀₉ VA7₀₈ VA7₀₇ VA7₀₆ VA7₀₅ VA7₀₄ VA7₀₃ VA7₀₂ VA7₀₁ VA7₀₀

RAM14

PROGRAM-EXECUTION-WORKING AREA DATA-STORAGE AREA PROGRAM-STORAGE AREA STACK MEMORY AREA

ACIPR 58

FD0

ACICR 74

FC0

ACIMR 64

FM0

FIG. 14

ACIPR 58

FD1

ACICR 74

FC1

ACIMR 64

FM1

ACIPR 58
FD2
ACICR 74
FC2
ACIMR 64
FM2

FIG. 16

ACIPR 58
FD3
ACICR 74
FC3
ACIMR 64
FM3

ACIPR 58
FD4
ACICR 74
FC4
ACIMR 64
FM4

FIG. 18

ACIPR 58

FD5

ACICR 74

FC5

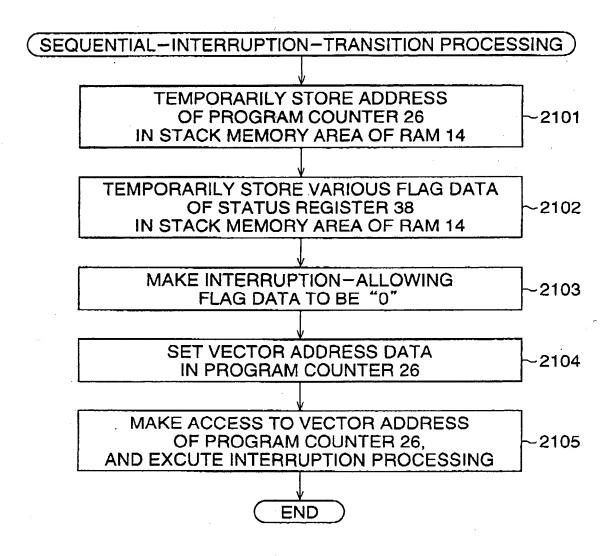
ACIMR 64

FM5

CIRCUIT ELEMENT 486	
ACIPR 58 FD6	
ACICR 74 FC6	
ACIMR 64 FM6	

FIG. 20

CIRCUIT ELEMENT 487	
ACIPR 58	
FD7	
ACICR 74	
FC7	
ACIMR 64	
FM7	
<u> </u>	• • • • • • • • • • • • • • • • • • •



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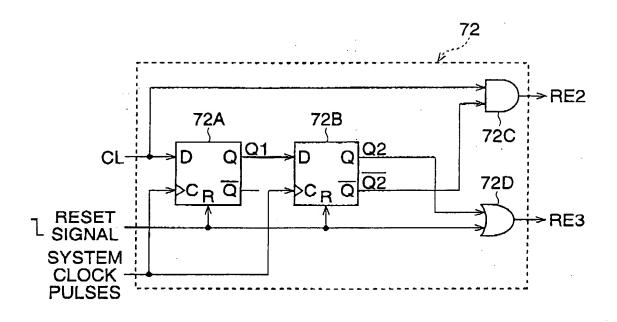
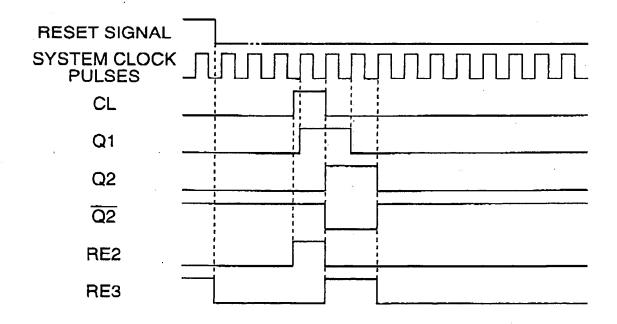
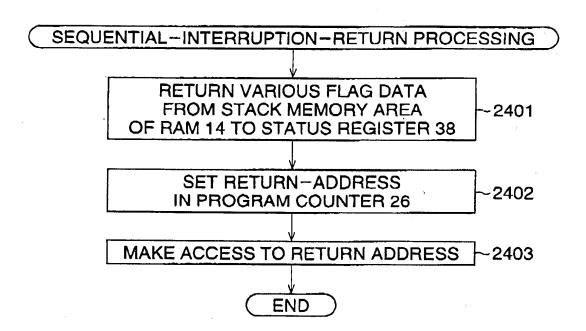


FIG. 23





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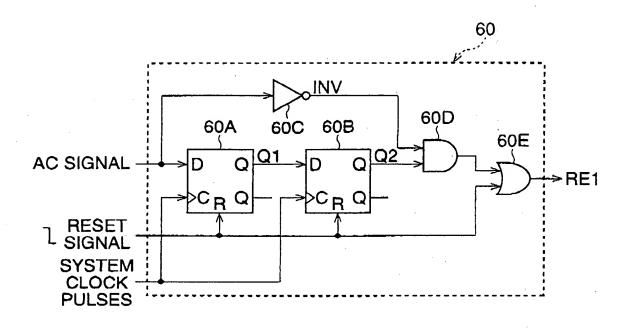
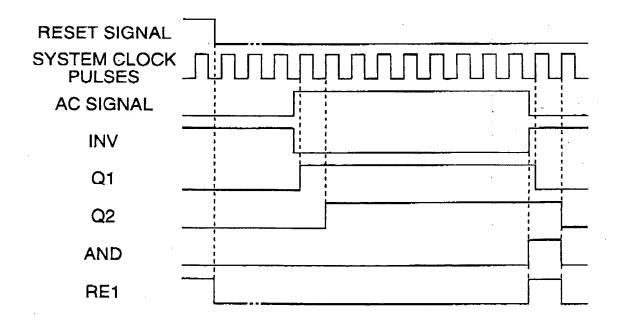
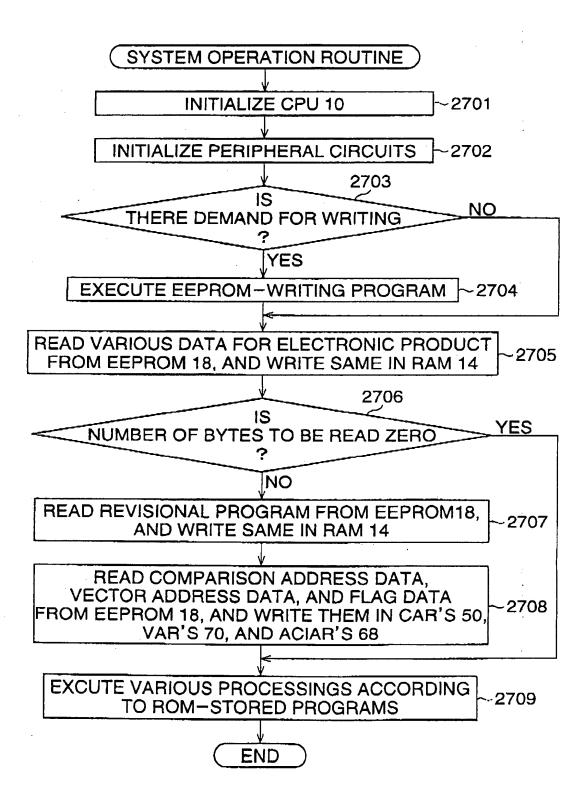


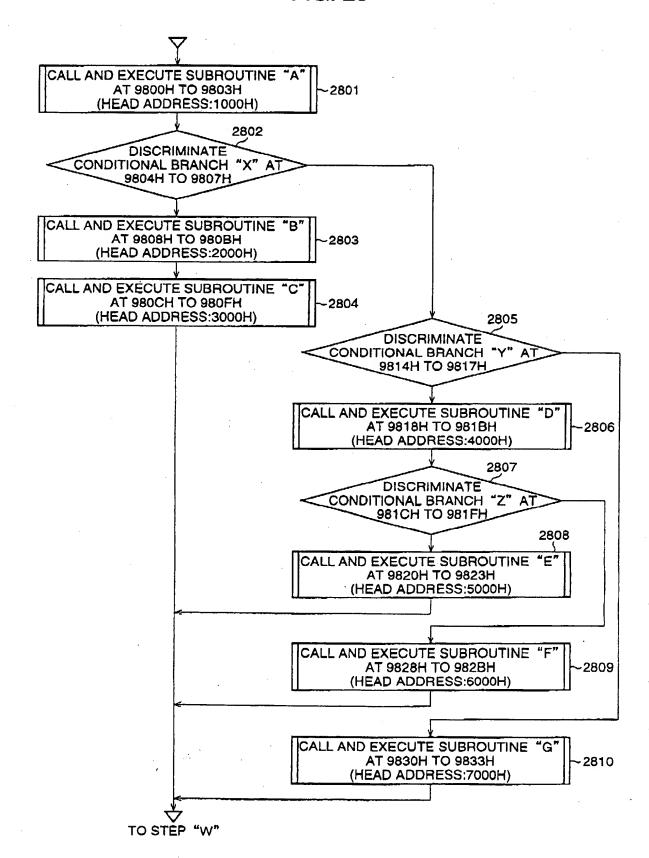
FIG. 26



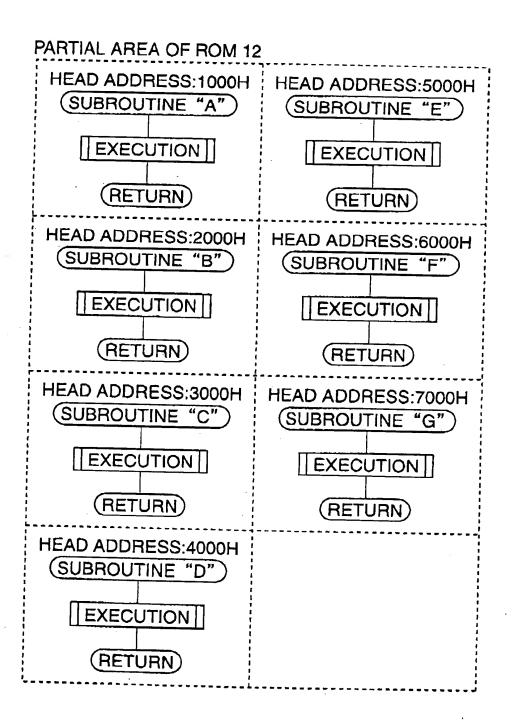
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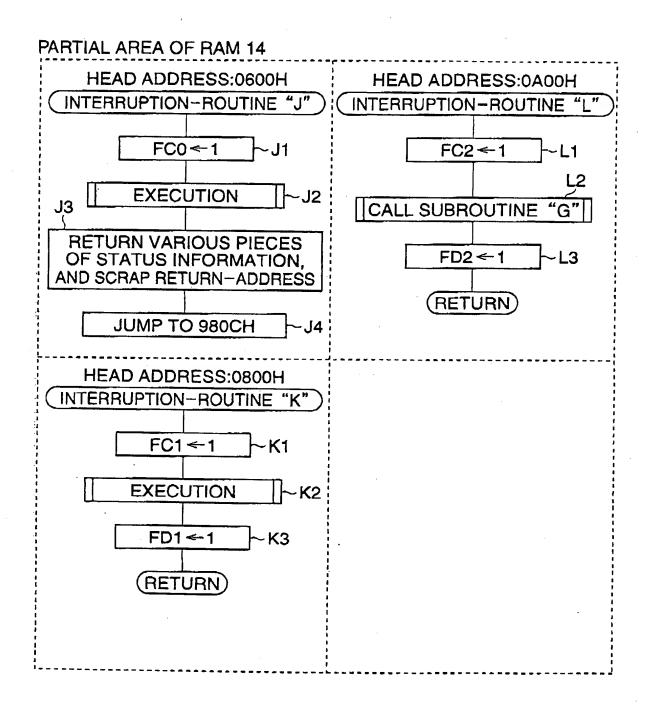


18/26 FIG. 28



```
ADDRESS TO BE
       RENEWED
      IN PROGRAM
      COUNTER 26
         9800H
         9801H
         9802H
         9803H→CALL A
         9804H
         9805H
        9807H CONDITIONAL (JUMP TO 9814H)
         9806H
              BRANCH X
CALL J < - 9808H
                            9814H
         9809H
                            9815H
                            9817H CONDITIONAL (JUMP TO 9830H)
        980AH
        980BH→CALL B
                                  BRANCH Y
  ----->980CH
                            9818H-A> CALL K
                                                           9830H
                            9819H 🗓 . ....!
        980DH
                                                          9831H
                                                          9832H
        980EH
                            981AH
        980FH→CALL C
                                                          9833H → CALL G
                            981BH-CALL D
        9810H
                            981CH-A> CALL L
                                                          9834H
        9811H
                            981DH
                                                          9835H
                                              (JUMP TO
        9812H
                                                          9836H
                            981EH
                                               9828H)
        9813H → JUMP
TO "W"
                                                          9837H -> JUMP
TO "W"
                            981FH CONDITIONAL
                                  BRANCH Z
                            9820H
                                               9828H
                            9821H
                                               9829H
                            9822H
                                               982AH
                            9823H -> CALL E
                                               982BH→CALL F
                            9824H
                                               982CH
                            9825H
                                               982DH
                            9826H
                                               982EH
                            9827H→JUMP
                                               982FH → JUMP
                                    TO "W"
                                                       TO "W"
```





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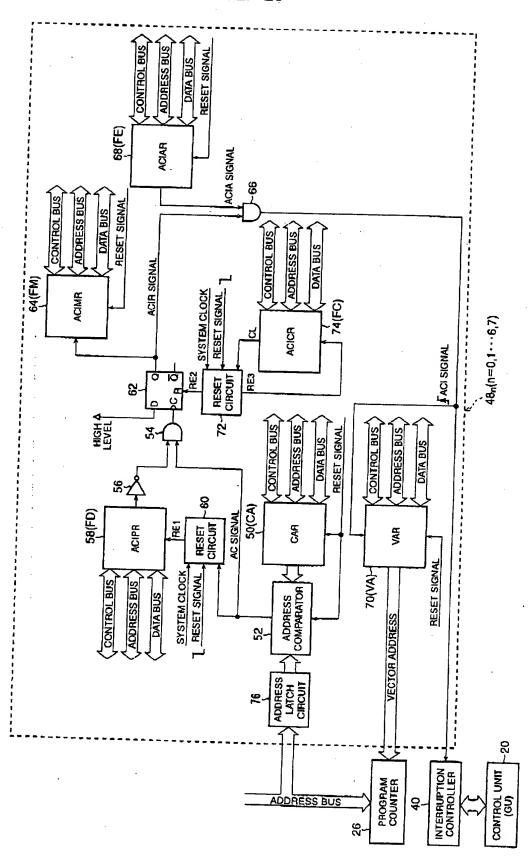
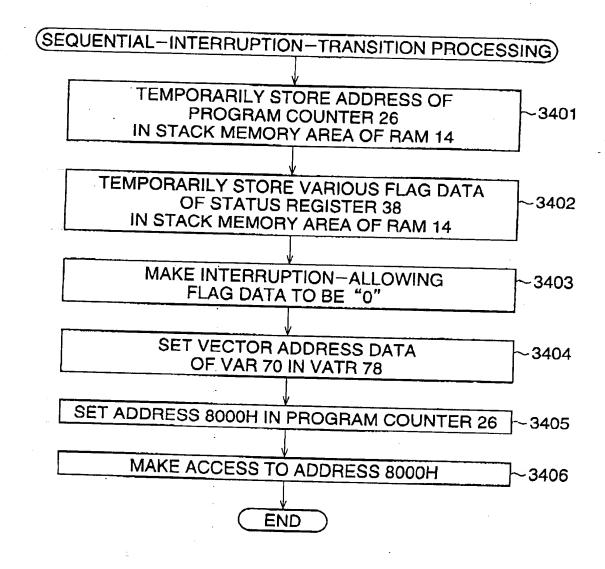


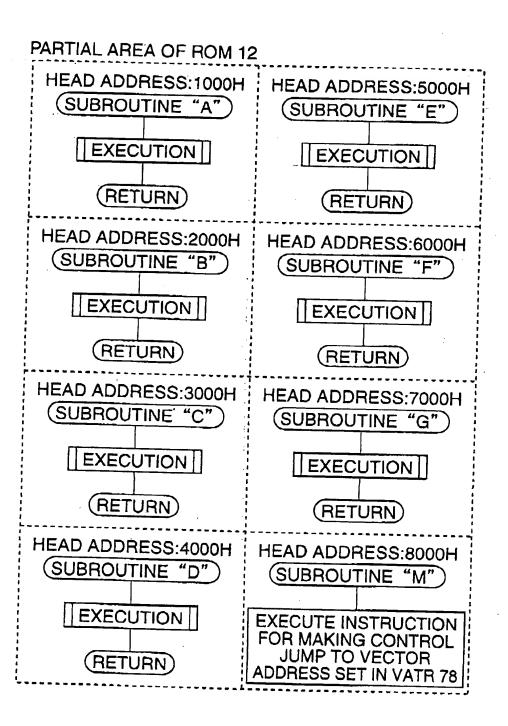
FIG. 32

23/26 CONTROL BUS ADDRESS BUS RESET SIGNAL DATA BUS 68(FE) ACIAR ACIA SIGNAL CONTROL BUS ADDRESS BUS RESET SIGNAL DATA BUS CONTROL BUS ADDRESS BUS ACIR SIGNAL 64(FM) RESET SIGNAL . ACIMR SYSTEM CLOCK $80_{\rm h}(n=0,1\cdots6,7)$ ACICH FACT SIGNAL RESET RE3 62 HIGH A CONTROL BUS ADDRESS BUS CONTROL BUS ADDRESS BUS 54 RESET SIGNAL DATA BUS 70 (YA) 8 50(CA) 58(FD) AC SIGNAL RESET ACIPR CAR VAR 1 RESET SIGNAL AC SIGNAL SYSTEM CLOCK ADDRESS BUS ADDRESS COMPARATOR CONTROL BUS DATA BUS 25 VATR ADDRESS BUS CONTROL BUS RESET SIGNAL DATA BUS ~20 INTERRUPTION CONTROL UNIT (GU) PROGRAM COUNTER -8 6,

FIG. 33

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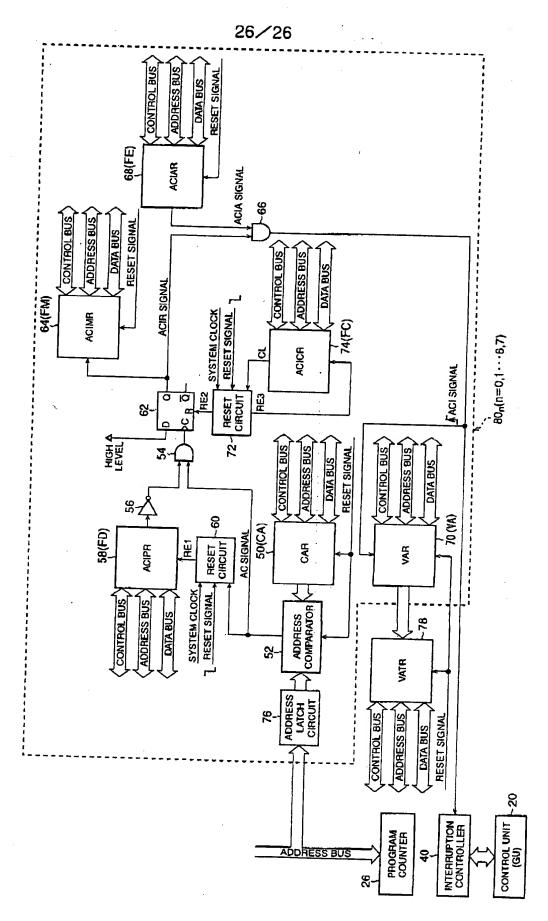


FIG. 36